TABLE 10a **SELECTED REMEDY ESTIMATED COST**

In-Situ Treatment with Engineered Cover and Institutional Controls

Capital Costs

Item Description	Quantity	Unit	Unit Cost	1	tem Cost
Institutional Controls	1	lump	\$50,000.00	\$	50,000
Site Preparation					
Mobilization/Setup	1	lump	\$80,000.00	\$	80,000
Erosion and Sediment Controls	1	lump	\$50,000.00	\$	50,000
Subtotal				\$	130,000
Demolition					
Demolition and Crushing/Grading Debris	1	lump	\$380,000.00	\$	380,000
Relocating and Grading of Creek Sediments/Soil	3,000	cy	\$4.00	\$	12,000
Subtotal				\$	392,000
Engineer Cover System					
Sub-base layer (6" General Fill)	2,120	cy	\$15.00	\$	31,800
Geosynthetic Clay Liner	131,000	sf	\$0.70	\$	91,700
60 mil HDPE Liner	131,000	sf	\$0.80	\$	104,800
Geonet Drainage Layer	131,000	sf	\$0.40	\$	52,400
Protective Geotextile	131,000	sf	\$0.40	\$	52,400
18" General Filf ²	7,260	cy	\$15.00	\$	108,900
6" Topsoil ²	2,410	cy	\$25.00	\$	60,250
Mulching/Seeding ²	131	1,000 sf	\$65.00	\$	8,515
Subtotal				\$	510,765
Direct Construction Total (DCT)				\$	1,082,765
Indirect Construction (20% of DCT)				\$	216,553
Construction Total				\$	1,299,318
Predesign Investigation (Total), including:				\$	255,000
Supplemental Overburden Investigation					
Building Survey					
Creek Sediments/Soil Characterization					
Design (10% of Construction Total)				\$	129,932
Permitting/Legal (5% of Construction Total)				\$	64,966
Regulatory Submittals (10% of Construction Total)					129,932
Construction Phase Engineering Services	5	month	\$30,000.00	\$	150,000

TABLE 10a SELECTED REMEDY ESTIMATED COST

In-Situ Treatment with Engineered Cover and Institutional Controls

Annual Costs - 30 Year

Site Inspection3	yr inspections ac lump	\$360,000.00 \$2,500.00 \$5,000.00 \$20,000.00	\$ \$	360,000 10,000 15,000 20,000
Cover Maintenance (Mowing & Repair) 3	ac	\$5,000.00	\$ \$	15,000
Annual Progress Report 1 Sub Total Annual O&M Cost II In Situ Mass Reduction		,	\$	
Sub Total Annual O&M Cost II In Situ Mass Reduction	lump	\$20,000.00		20,000
II In Situ Mass Reduction			•	
			9	405,000
In Situ Treatability Testing (Pre-design) 1				
	lump	\$5,333.33	\$	5,333
Phase-in and Full-Scale Field Implementation and Operation 1	lump	\$32,000.00	\$	32,000
Miscellaeneous Appurtences 1	lump	\$1,666.67	\$	1,667
System Dismantlement 1	lump	\$3,333.33	\$	3,333
Annual O &M (sampling , reporting, maintenance)			\$	25,000
Sub-Total: In-Situ Annual Cost (per year cost for 30 years			\$	67,333
Total Annual O&M Cost - Present Worth Value "R"			\$	472,333
Present Worth @ $I = 5\%$, $n = 30$ yr = $R[((1+i)n - 1)/i(1+i)n] = R[15.8]$	B0]		\$	7,462,867

Total Capital Cost		\$	2,029,148
Total Present Worth O&M Cost-30 year		\$	7,462,867
Subtotal		\$	9,492,014
		_	

Projected Opinion of Probable Cost (Present Worth)

\$ 9,492,014

¹Engineering estimate from previous work

²RS Means Building Constrction Cost Data

³Semi-annually and after storm events